

# Giovanna Gambarotta

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

1,547  
citations

304368

22  
h-index

315357

38  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2239  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Natural Hepatocyte Growth Factor/Scatter Factor Autocrine Loop in Myoblast Cells and the Effect of the Constitutive Met Kinase Activation on Myogenic Differentiation. <i>Journal of Cell Biology</i> , 1997, 137, 1057-1068.	2.3	165
2	Chitosan tubes of varying degrees of acetylation for bridging peripheral nerve defects. <i>Biomaterials</i> , 2013, 34, 9886-9904.	5.7	140
3	Use of hybrid chitosan membranes and N1E-115 cells for promoting nerve regeneration in an axonotmesis rat model. <i>Biomaterials</i> , 2008, 29, 4409-4419.	5.7	115
4	Gelatin-based hydrogel for vascular endothelial growth factor release in peripheral nerve tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 459-470.	1.3	81
5	A gene trap vector system for identifying transcriptionally responsive genes. <i>Nature Biotechnology</i> , 2001, 19, 579-582.	9.4	69
6	Natural-Based Biomaterials for Peripheral Nerve Injury Repair. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 554257.	2.0	62
7	ErbB4 Expression in Neural Progenitor Cells (ST14A) Is Necessary to Mediate Neuregulin-1 <sup>21</sup> -induced Migration. <i>Journal of Biological Chemistry</i> , 2004, 279, 48808-48816.	1.6	57
8	Pre- and postnatal exposure to glyphosate-based herbicide causes behavioral and cognitive impairments in adult mice: evidence of cortical and hippocampal dysfunction. <i>Archives of Toxicology</i> , 2020, 94, 1703-1723.	1.9	55
9	Neuregulin 1 Role in Schwann Cell Regulation and Potential Applications to Promote Peripheral Nerve Regeneration. <i>International Review of Neurobiology</i> , 2013, 108, 223-256.	0.9	48
10	Persistent DNA damage-induced premature senescence alters the functional features of human bone marrow mesenchymal stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 734-743.	1.6	48
11	The Neuregulin1/ErbB system is selectively regulated during peripheral nerve degeneration and regeneration. <i>European Journal of Neuroscience</i> , 2016, 43, 351-364.	1.2	44
12	Development and characterization of novel agar and gelatin injectable hydrogel as filler for peripheral nerve guidance channels. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017, 11, 197-208.	1.3	44
13	Irreversible changes occurring in long-term denervated Schwann cells affect delayed nerve repair. <i>Journal of Neurosurgery</i> , 2017, 127, 843-856.	0.9	38
14	Deletion of GABA <sub>B</sub> Receptor in Schwann Cells Regulates Remak Bundles and Small Nociceptive C-fibers. <i>Glia</i> , 2014, 62, 548-565.	2.5	37
15	Control of invasive growth by the HGF receptor family. <i>Journal of Cellular Physiology</i> , 1997, 173, 183-186.	2.0	35
16	Stathmin Expression Modulates Migratory Properties of GN-11 Neurons in Vitro. <i>Endocrinology</i> , 2005, 146, 1825-1834.	1.4	35
17	Nerve regeneration along bioengineered scaffolds. <i>Microsurgery</i> , 2007, 27, 429-438.	0.6	33
18	Identification and Validation of Suitable Housekeeping Genes for Normalizing Quantitative Real-Time PCR Assays in Injured Peripheral Nerves. <i>PLoS ONE</i> , 2014, 9, e105601.	1.1	28

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19	Chitosan Tubes Enriched with Fresh Skeletal Muscle Fibers for Primary Nerve Repair. <i>BioMed Research International</i> , 2018, 2018, 1-13.	0.9	27
20	Denervation and reinnervation of adult skeletal muscle modulate mRNA expression of neuregulin-1 and ErbB receptors. <i>Microsurgery</i> , 2009, 29, 464-472.	0.6	25
21	Modulation of the Neuregulin 1/ErbB system after skeletal muscle denervation and reinnervation. <i>Scientific Reports</i> , 2018, 8, 5047.	1.6	24
22	The Median Nerve Injury Model in Pre-clinical Research – A Critical Review on Benefits and Limitations. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 288.	1.8	24
23	ErbB2 Receptor Over-Expression Improves Post-Traumatic Peripheral Nerve Regeneration in Adult Mice. <i>PLoS ONE</i> , 2013, 8, e56282.	1.1	23
24	Chitosan tubes enriched with fresh skeletal muscle fibers for delayed repair of peripheral nerve defects. <i>Neural Regeneration Research</i> , 2019, 14, 1079.	1.6	23
25	Neuregulin1 alpha activates migration of neuronal progenitors expressing ErbB4. <i>Molecular and Cellular Neurosciences</i> , 2016, 77, 87-94.	1.0	19
26	Chitosan Micro-Grooved Membranes with Increased Asymmetry for the Improvement of the Schwann Cell Response in Nerve Regeneration. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7901.	1.8	18
27	Morphological and biomolecular characterization of the neonatal olfactory bulb ensheathing cell line. <i>Journal of Neuroscience Methods</i> , 2009, 185, 89-98.	1.3	17
28	Myocardial ischemia/reperfusion upregulates the transcription of the Neuregulin1 receptor ErbB3, but only postconditioning preserves protein translation: Role in oxidative stress. <i>International Journal of Cardiology</i> , 2017, 233, 73-79.	0.8	15
29	Bioactive recombinant neuregulin-1, -2, and -3 expressed in <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2004, 35, 25-31.	0.6	13
30	Fibroblasts Colonizing Nerve Conduits Express High Levels of Soluble Neuregulin1, a Factor Promoting Schwann Cell Dedifferentiation. <i>Cells</i> , 2020, 9, 1366.	1.8	13
31	Functional, morphological and biomolecular assessment of posttraumatic neuro-muscular recovery in the rat forelimb model. <i>Acta Neurochirurgica Supplementum</i> , 2007, 100, 173-177.	0.5	13
32	Differential expression of neuregulins and their receptors in the olfactory bulb layers of the developing mouse. <i>Brain Research</i> , 2006, 1077, 37-47.	1.1	11
33	Neuregulin1/ErbB4-induced migration in ST14A striatal progenitors: calcium-dependent mechanisms and modulation by NMDA receptor activation. <i>BMC Neuroscience</i> , 2011, 12, 103.	0.8	11
34	Characterization of Glial Cell Models and <i>In Vitro</i> Manipulation of the Neuregulin1/ErbB System. <i>BioMed Research International</i> , 2014, 2014, 1-15.	0.9	11
35	Soluble Neuregulin1 is strongly up-regulated in the rat model of Charcot-Marie-Tooth 1A disease. <i>Experimental Biology and Medicine</i> , 2018, 243, 370-374.	1.1	11
36	Soluble Neuregulin1 Down-Regulates Myelination Genes in Schwann Cells. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 157.	1.4	11

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37	Neuregulin 1 isoforms could be an effective therapeutic candidate to promote peripheral nerve regeneration. <i>Neural Regeneration Research</i> , 2014, 9, 1183.	1.6	11
38	Blood Vessels: The Pathway Used by Schwann Cells to Colonize Nerve Conduits. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2254.	1.8	11
39	Eps8 involvement in neuregulin1-ErbB4 mediated migration in the neuronal progenitor cell line ST14A. <i>Experimental Cell Research</i> , 2011, 317, 757-769.	1.2	9
40	Effect of sildenafil on human aromatase activity: From in vitro structural analysis to catalysis and inhibition in cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 165, 438-447.	1.2	9
41	The neurodynamic treatment induces biological changes in sensory and motor neurons in vitro. <i>Scientific Reports</i> , 2021, 11, 13277.	1.6	8
42	Soluble neuregulin-1 (NRG1): a factor promoting peripheral nerve regeneration by affecting Schwann cell activity immediately after injury. <i>Neural Regeneration Research</i> , 2019, 14, 1374.	1.6	8
43	Local delivery of the Neuregulin1 receptor ecto-domain (ecto-ErbB4) has a positive effect on regenerated nerve fiber maturation. <i>Gene Therapy</i> , 2015, 22, 901-907.	2.3	7
44	Combined Influence of Gelatin Fibre Topography and Growth Factors on Cultured Dorsal Root Ganglia Neurons. <i>Anatomical Record</i> , 2018, 301, 1668-1677.	0.8	7
45	The four isoforms of the tyrosine kinase receptor ErbB4 provide neural progenitor cells with an adhesion preference for the transmembrane type III isoform of the ligand neuregulin 1. <i>NeuroReport</i> , 2014, 25, 233-241.	0.6	6
46	Editorial: Peripheral Nerve Regeneration. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 464.	1.8	5
47	New insights on the standardization of peripheral nerve regeneration quantitative analysis. <i>Neural Regeneration Research</i> , 2015, 10, 707.	1.6	5
48	Decreased Hippocampal Neuroplasticity and Behavioral Impairment in an Animal Model of Inhalant Abuse. <i>Frontiers in Neuroscience</i> , 2018, 12, 35.	1.4	4
49	Critical analysis of the value of the rabbit median nerve model for biomedical research on peripheral nerve grafts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 736-740.	1.3	4
50	Stimulation of the four isoforms of receptor tyrosine kinase ErbB4, but not ErbB1, confers cardiomyocyte hypertrophy. <i>Journal of Cellular Physiology</i> , 2021, 236, 8160-8170.	2.0	4
51	Neurogranin Regulates Adult-Born Olfactory Granule Cell Spine Density and Odor-Reward Associative Memory in Mice. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4269.	1.8	3
52	Neurodynamic Treatment Promotes Mechanical Pain Modulation in Sensory Neurons and Nerve Regeneration in Rats. <i>Biomedicines</i> , 2022, 10, 1296.	1.4	3